UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE *	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/565,109	01/19/2006	· Tomohiro Yabu	4633.0157PUS1	5480	
	7590 01/11/200 ART KOLASCH & BI	EXAM	EXAMINER		
PO BOX 747			ALI, MOHA	ALI, MOHAMMAD M	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
			3744		
			NOTIFICATION DATE	DELIVERY MODE	
			01/11/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

		Application No.	Applicant(s)	Γ			
Office Action Summary		10/565,109	YABU ET AL.				
		Examiner	Art Unit	_			
	•	Mohammad M. Ali	3744				
-	The MAILING DATE of this communication app						
Period for			•				
WHICI - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute the ply received by the Office later than three months after the mailing digital patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on 19 Ja	anuary 2006.	•				
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
1	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition	on of Claims						
4)⊠	Claim(s) $1-5$ is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
•	Claim(s) <u>1-4</u> is/are rejected.						
•	Claim(s) <u>5</u> is/are objected to.	- election requirement					
8)[_]	Claim(s) are subject to restriction and/o	r election requirement.					
Application	on Papers						
9) 🔲 🖰	The specification is objected to by the Examine	er.					
	The drawing(s) filed on <u>19 January 2006</u> is/are						
	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)∐	The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	3 Action of form PTO-132.				
Priority u	nder 35 U.S.C. § 119						
12) 🔲 /	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No.						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
* 0	application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
3	ee the attached detailed Office action for a fist	of the certified copies not receiv	<b>.</b>				
Attachmen	He)						
<u> </u>	պs) e of References Cited (PTO-892)	4) Interview Summar					
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail ( 5) Notice of Informal					
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>03/09/07</u> .	6) Other:	· contrapposation				

Application/Control Number:

10/565,109 Art Unit: 3744

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Boku et al., (JP 2001-241693 A). Boku et al., disclose a humidity control system including an adsorber for controlling humidity of air to be processed using an adsorbent. 32/42 and a refrigerant circuit 20 for operating on a refrigeration cycle and thermally regenerates the adsorber at moisture desorption section 33/45 with heat of refrigerant in the refrigerant circuit 20. Wherein the humidity control system is configured so that the sensible heat zone of the refrigerant is larger than that for R22 when compared in terms of refrigerant cycle having substantially the same discharge temperature being a functional recitation for the behaving function of some refrigerant. The CO2 being one of the such refrigerant inherently shows the claimed behavior. See Fig.17 and the enclosed translation.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number:

10/565,109 Art Unit: 3744

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Boku et., al. R32 refrigerant being a well known in the art is an obvious implementation in place of CO2 refrigerant..

## Allowable Subject Matter

Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad M. Ali whose telephone number is 571-272-4806. The examiner can normally be reached on maxiflex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on 571-272-4808. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Application/Control Number: 10/565,109 Art Unit: 3744

Page 4